Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-12-28-132 **Date: 08-09-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-17

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 06-09-17

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-28-132** **Date: 04-10-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-17
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-09-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-28-132** **Date: 09-09-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-09-17
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-28-132** **Date: 09-09-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-28-132** **Date: 09-09-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.
Customer Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-09-17
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-28-132** **Date: 09-09-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	24.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-28-132** **Date: 09-09-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-17

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-09-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-28-132** **Date: 09-09-17**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-12-28-132**	**Date: 14-09-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.	
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.	
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-09-17	
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm	
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)	
Date of test	:	11-09-17	

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	198	200	16038	31.505	1964.4	1999.4	Not less than 1800Kg/m^3
2	399	200	199	15880	32.042	2017.7		
3	402	201	199	16080	32.418	2016.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2018-12-28-132** **Date: 14-09-17**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	201	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	202	203	
3	400	201	200	
4	404	201	201	
5	403	203	200	
6	401	201	203	
7	402	200	199	
8	404	200	201	
9	402	199	200	
10	402	202	203	
11	402	201	201	
12	402	203	199	
13	401	199	201	
14	403	201	203	
15	403	202	203	
16	404	199	202	
17	401	200	202	
18	401	202	202	
19	400	200	202	
20	401	201	202	
Average of 20	**402**	**201**	**201**	

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o ID : CP-2018-12-28-132 Date: 14-09-17

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	399	201	80393	362.5	4.5	4.5
2	401	202	80912	378.6	4.7	
3	400	201	80548	364.5	4.5	
4	404	201	81211	378.2	4.7	
5	403	203	81803	374.9	4.6	
6	401	201	80834	353.3	4.4	
7	402	200	80424	373.8	4.6	
8	404	200	80551	355.3	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

Assistant Executive Engineer,
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TEST RESULTS OF STEEL

Lab ID : **CP-2018-12-28-132** **Date: 09-10-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-10-17

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 07-10-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-28-132** **Date: 17-10-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-10-17

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 13/10/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.48	1.116	4478	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.48	100.52	1.122	4474	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-12-28-132**	**Date: 14-10-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.	
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.	
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-10-17	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	10/10/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	165.51	200.48	2.216	21511	85.6	4.0	3.7	4.6
2	Cover Slab-2	165.49	200.52	2.196	21506	84.9	3.9	3.7	4.6
3	Cover Slab-3	165.50	200.51	2.301	21508	83.5	3.9	3.6	4.5

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R KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2018-12-28-132** **Date: 25-09-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-17
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	18-09-17

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : **CP-2018-12-28-132** **Date: 25-09-17**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			**10.5**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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R KARTHIK RECHAN
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Quality Manager

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****End of Report****

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 17/10/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	17/10/2017	151.89 X 151.83 X 151.77	23061	**8.059**	417.4	18.1	18.6
2	RCC	M20	10/10/2017	17/10/2017	151.18 X 149.03 X 149.03	22530	**8.570**	420.1	18.6	
3	RCC	M20	10/10/2017	17/10/2017	149.63 X 150.69 X 151.73	22547	**8.235**	426.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 07/11/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	07/11/2017	151.36 X 150.11 X 151.91	22721	**8.262**	543.6	23.9	23.3
2	RCC	M20	10/10/2017	07/11/2017	150.53 X 151.81 X 150.98	22852	**8.339**	510.8	22.4	
3	RCC	M20	10/10/2017	07/11/2017	149.77 X 151.41 X 150.98	22677	**8.986**	536.6	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 17/10/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	17/10/2017	151.59 X 150.46 X 151.11	22809	**8.949**	424.8	18.6	18.4
2	RCC	M20	10/10/2017	17/10/2017	151.51 X 150.83 X 149.10	22852	**8.062**	422.0	18.5	
3	RCC	M20	10/10/2017	17/10/2017	150.05 X 151.85 X 149.76	22784	**8.047**	412.1	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 07/11/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	07/11/2017	151.95 X 149.71 X 150.89	22748	**8.642**	539.0	23.7	23.2
2	RCC	M20	10/10/2017	07/11/2017	151.74 X 149.67 X 150.95	22712	**8.050**	512.5	22.6	
3	RCC	M20	10/10/2017	07/11/2017	151.78 X 151.85 X 149.31	23048	**8.751**	537.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 14/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-08-18

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	07/08/2018	14/08/2018	151.76 X 151.07 X 151.75	22926	**8.140**	434.2	18.9	18.4
2	RCC	M20	07/08/2018	14/08/2018	151.25 X 150.23 X 150.49	22723	**8.174**	409.1	18.0	
3	RCC	M20	07/08/2018	14/08/2018	151.37 X 150.85 X 149.82	22834	**8.247**	415.4	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 07/11/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	07/11/2017	150.58 X 149.04 X 151.96	22442	**8.530**	526.8	23.5	23.2
2	RCC	M20	10/10/2017	07/11/2017	151.11 X 149.92 X 149.07	22655	**8.259**	518.8	22.9	
3	RCC	M20	10/10/2017	07/11/2017	151.05 X 151.52 X 149.35	22886	**8.823**	528.4	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 14/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : RCC

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/08/2018	14/08/2018	151.51 X 149.38 X 151.64	22632	**8.664**	407.8	18.0	18.1
2	Drain Concrete	M20	07/08/2018	14/08/2018	151.36 X 149.80 X 151.32	22674	**8.544**	412.2	18.2	
3	Drain Concrete	M20	07/08/2018	14/08/2018	149.42 X 150.89 X 151.59	22547	**8.349**	408.1	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 07/11/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-17

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	07/11/2017	149.99 X 149.86 X 149.49	22477	**8.463**	537.0	23.9	23.4
2	RCC	M20	10/10/2017	07/11/2017	149.77 X 150.03 X 149.16	22469	**8.106**	506.2	22.5	
3	RCC	M20	10/10/2017	07/11/2017	149.49 X 151.15 X 150.19	22596	**8.764**	539.2	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-28-132** **Date: 14/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work in Ward No. 08 Kodigehalli Sub Division.

Agency : Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.

Customer's Reference : BBMP/EE/BTP/WO/176/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-08-18

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	07/08/2018	14/08/2018	149.34 X 150.36 X 149.44	22455	**8.012**	404.5	18.0	18.3
2	RCC	M20	07/08/2018	14/08/2018	149.49 X 151.92 X 149.04	22710	**8.098**	420.7	18.5	
3	RCC	M20	07/08/2018	14/08/2018	149.95 X 150.89 X 151.69	22627	**8.968**	418.4	18.5	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-28-132** **Date: 07/11/2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. IInd Stage Bangalore-560094.
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-17
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	10/10/2017	07/11/2017	151.88 X 150.04 X 149.87	22788	**8.251**	536.8	23.6	23.3
2	RCC	M20	10/10/2017	07/11/2017	151.73 X 151.57 X 151.05	22998	**8.354**	519.0	22.6	
3	RCC	M20	10/10/2017	07/11/2017	149.74 X 150.22 X 151.18	22495	**8.331**	533.0	23.7	

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R KARTHIK RECHAN
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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2018-12-28-132** **Date: 22-10-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Work in Ward No. 08 Kodigehalli Sub Division.
Agency	:	Sri. Narayanaswamy R, #35/2, Srinivasanilaya, Geddalahally, R.M.V. Iind Stage Bangalore-560094.
Customer's Reference	:	BBMP/EE/BTP/WO/176/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-17
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	18-10-17

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	**300**		**300**		**12.04**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1202	1245	3.58	3.13
2	1211	1244	2.73	
3	1254	1295	3.27	
4	1204	1251	3.90	
5	1231	1258	2.19	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	8.02	12.5	12.36
2	400	400	8.03	12.4	
3	401	400	8.01	12.9	
4	400	400	8.07	11.9	
5	400	400	8.05	12.1	

Note:

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